



Program Book

Friday, July 25, 2025
Popp Martin Student Union
&

Online via Symposium

<https://symposium.foragerone.com/summer-2025>

Welcome to 2025 OUR Summer Research Symposium!

The Summer Research Symposium celebrates the intellectual exploration and creativity of our students. With nearly 150 presenters, 2025 represents one of the largest Summer Research Symposiums at UNC Charlotte. As UNC Charlotte ascends to “R1” status, the involvement of so many members of our community in research is vital for the mission of the University.

These presentations are the result of nearly 30,000 hours of collaborative work between students and mentors in the labs, libraries, studios, field sites, and with community partners. We encourage you to engage broadly with the diverse projects representing over 35 departments and programs from 7 colleges across the University.

The research presented here represents multiple National Science Foundation supported programs, the Charlotte Teachers Institute, the Louis Stokes Alliance for Minority Participation, and the OUR Summer Scholars.

These students and professionals have not only advanced our collective knowledge and understanding of the world we live in, but they have demonstrated tremendous resilience, innovation, and creativity to overcome difficult trials, setbacks, and challenges to be able to share with you today their findings and experience. We welcome you to approach them with an open mind. Ask questions. Be prepared to learn and to discover new things. Help us celebrate the accomplishments of this group of future and current professionals.

Finally, the Summer Research Symposium would not be possible without the commitment of our UNC Charlotte research mentors. A big thank you to all mentors for your service and dedication to undergraduate research, scholarship, and creative activities at UNC Charlotte.

Welcome to the Summer Research Symposium and enjoy your time with our students!

View presentations, ask questions, and continue conversations online
at the 2025 Summer Research Symposium site



2025 Summer Research Symposium

Schedule of Sessions

9:00 AM – On-site Conference Registration Opens (outside 340)

9:45 AM – 10:00 AM – Welcome (340)

10:00AM – 11:00 AM – First Presentation Session

Poster Presentations in 340 and Oral Presentations in 261

11:00 AM – 11:15 AM – Poster & Room Swaps

11:15AM – 12:15 PM – Second Presentation Session

Poster Presentations in 340 and Oral Presentations in 261

12:15 PM – 1:15 PM – Lunch in back of 340

Poster & Room Swaps

1:15 PM – 2:15 PM – Third Presentation Session

Poster Presentations in 340 and Oral Presentations in 261

2:15PM-2:30PM – Thank you and event clean up (340)

First Oral Presentation Session 10:00-11:00AM

Room 261

Measuring Volunteer Participation and Retention for Environmental Conservation

Nathan Young

Research Mentor: Timothy Murtha

Aligning Light with Silicon: A Student's Perspective on Light-Based Circuits

Aiden Valentine

Research Mentor: Jay Mathews

Future of Clean Energy and Harnessing its Power through Geological Hydrogen

Ramon Rodriguez

Research Mentor: Drew Syverson

Second Oral Presentation Session 11:15AM - 12:15PM

Room 261

The Impact of NAFTA and USMCA on U.S. Export Performance to Mexico: A Bilateral Difference-in-Differences (DiD) Analysis with COVID Adjustment

Angelica Hsueh

Research Mentor: Jürgen Buchenau

Machine Learning Approaches to Blood Pressure Prediction

Darren Summerlee, Wenyu Gao, Adam Sun

Research Mentor: Eliana Christou

Analysis and testing of a curve-fitting algorithm by a step function

Nour Al Deen El Hatto

Research Mentor: Sebastien Bossu

Third Oral Presentation Session 1:15PM - 2:15PM

Room 261

Developing Antibacterial Metallic Nanoparticles

Laura Scala

Research Mentor: Juan Vivero-Escoto

Color, Code, & Culture: An Ethnography of Hip Hop Pedagogy

Naiya Graham

Research Mentor: Ashley Tate

Training Machine Learning Models for Fast and Accurate Simulation of the Rotational Dynamics of Molecules Under Electronic Strong Coupling

Sebastien "Stroud" Snider

Research Mentor: Dr. Jay Foley; Ruby Manderna

First Session of Poster Presentations

Poster #	Session 1 Presenter Name (10:00AM – 11:00 AM)		Poster #	Session 1 Presenter Name (10:00AM – 11:00 AM)	
101	Regina	Dula	124	Natasha	Ridge
102	Aidan	Oh	125	Cooper	Wozniak
103	Maya	Umozurike	126	Gabriella	Colón
104	Allison	Spohn	127	Elizabeth	Riley
105	Arni	Pancras	128	Faith	Ford
106	Jacob	Karty	129	Le'Quanza	Johnson
107	Katelyn	Cloud	130	Myles	Green
108	Rochelle	Stanley	131	Alejandra	Diaz
109	Jasmine	Sanchez	132	Daniela	Rivera
110	Kebron	Mamo	133	Keydra	Cypress
111	Sara	Field	134	Spencer	Carpentier
112	Chelsea	Hall	135	Lucia	Wert
113	Kenta	Sakamoto	136	Justin	Gifford
114	Savannah	Stuart	137	Kai	Norris
115	Thomas Huston	Murphy	138	Mary	Kytte
116	Jia	Holt	139	May	Winiarski
117	Nathon	Tadeo	140	Maxwell	Sommer
118	Chanel	Harris	141	Josh	Cantor
119	Kacey	Podielsky	142	Andrew	Bartkowiak
120	Atalia	Cooper	143	Hyun	Seo
121	Jamie	Rogers	144	Madhava Aditya Bharadwaj	Pinapati
122	Nin	Hlaing	145	LaShonda	Alexander
123	Sebastian	Mares			

Second Session of Poster Presentations

Poster #	Session 2 Presenter Name (11:15AM – 12:15 PM)		Poster #	Session 2 Presenter Name (11:15AM – 12:15 PM)	
101	Ella	Luedeke	124	Hope	Borders
102	Adda	Fisher	125	Mozan	Alzpair
103	Eliza	Harrell	126	Melissa	Hefner
104	Jasmine	Oliver	127	Christian	Schefer
105	Ryan	Sawin	128	Saige	Hatfield
106	Ruby	Flanagan	129	Katie	McCarthy
107	Zoha	Ali	130	Sarmistha	Ghosh
108	Kimberly	Lipscomb	131	Reagan	DeCaro
109	Alex	Sheng	132	Jackson	Timberlake
110	Irfan	Khan	133	Nicolas	Gomez
111	Edgar	Gallardo-Ramirez	134	Rebecca	Zheng
112	William	Wiand	135	Yasmine	Paige
113	Julia	O'Connor	136	Susan	Pittinaro
114	Isaac	Tumey	137	Emma	Wilhjelm
115	Nawal	Karshe	138	Abby	Cameron
116	Tamara	Wood	139	Jacob	Hawkins
117	Tim	Tsung	140	Shannon	McFarland
118	Stephanie	Huneycutt	141	Rome	Nasco
119	Tucker	Neal	142	Gabby	Houck
120	Yao	Djaka	143	Rishita	Chawla
121	Daltonesha	Miller	144	Riley	Peterson
122	Eric	Brooks	145	Karen	Kyei-Fordjour
123	Danny	Valdes			

Third Session of Poster Presentations

Poster #	Session 3 Presenter Name (1:15PM – 2:15 PM)		Poster #	Session 3 Presenter Name (1:15PM – 2:15 PM)	
101	Sarah	Mantegna	124	Morgan	Scotten-White
102	Damarys	Hernandez Santana	125	Khuanduen	Toatley
103	Tairen	Fenhoff	126	Olivia	Gerhart
104	Sophia	Maisano	127	Kaleb	Bacztub
105	Madison	Drumheller	128	Krishna	Didugu
106	Daniel	Mendoza	129	Diana	Merenkov
107	Joy	Manson	130	Jackson	Redman
108	Panaya	Gadekar	131	Amanda	Fye
109	John	Quinn	132	Bryan	Campbell
110	Ally	Balkan	133	Yolanda	Sistrunk
111	Caleb	Brohman	134	Krish	Dandu
112	Lisa	Smith	135	Maya	Vengurlekar
113	Caroline	Stacks	136	Janice	Sutton
114	Emma	Crawford	137	Atqiya	Nafisa
115	Alex	Becerril Cruz	138	Heaven	Addai
116	Nina	Le	139	Ethan	Wan
117	Nikolas	Brown	140	Kenneth	Kim
118	Evelyn	Metcalf	141	Tam	Hawk
119	Tyler	LaFramboise	142	Dylan	Truong
120	Charlie	Darby	143	Mariana	Guzman
121	Yvonne	Jordan	144	Larry	Bosc
122	Matilda	Ayisah-Quaye	145	Jasmine	Jacobo-Martinez
123	Dylan	Lauro	146	Kaylie	Vong

Poster Titles

Privacy and Security in Software Systems

Heaven Addai

Research Mentor: Dale-Marie Wilson

Buses, Boycotts, Bridges, and Breakthroughs: "A Journey Through Civil Rights History".LaShonda Alexander

LaShonda Alexander

Research Mentor: Scott Gartlan

Tissue-simulating phantoms to improve enhanced thermal imaging (ETI)

Zoha Ali, Jessica Tejeda Rubalcava

Research Mentor: Susan Trammell

Chemokine Signaling, Inflammation and Cancer

Mozan Alzpair

Research Mentor: Didier Dreau

Advancing the Labor Force Participation of Charlotte's Latino Mothers and Fathers

Matilda Ayisah-Quaye

Research Mentor: Stephanie Potochnick

An AI-Assisted Framework for Automated Vulnerability Discovery and Exploit Generation Targeting ConnMan

Kaleb Bacztub

Research Mentor: Meera Sridhar

The Therapeutic Benefits Of Arts-Based Programs In Charlotte

Ally Balkan

Research Mentor: Vaughn Schmutz

It takes all of us: Reflections on The 2025 Civil Rights Trip

Andrew Bartkowiak

Research Mentor: Scott Gartlan

Developing Pan-genome Tools for Exploring Heat Tolerance in Tomato Plants.

Alex Becerril Cruz

Research Mentor: Robert Reid

Dragonfly diversity: evaluating long-term ecological restoration in Charlotte, NC

Hope Borders

Research Mentor: Sandra Clinton

Freedom Riders-Centered Historical Field Trip: June 13-16, 2025

Larry Bosc

Research Mentor: Scott Gartlan

From Pixels to Prognosis: Using Deep Learning to Explore Placenta Pathology

Caleb Brohman

Research Mentor: Farah Deeba

Investigating DNA-binding effector proteins secreted into fungi by bacteria Eric Brooks, Aylha Pferschy,
Morgan Carter

Eric Brooks

Research Mentor: Morgan Carter

Macroscale Porosity Control in Clay Extrusion Through Parameter Optimization

Nikolas Brown

Research Mentor: Lynnora Grant

A Severe Weather Climatology of the Charlotte Metropolitan Region

Abby Cameron

Research Mentor: Matthew Eastin

How EV Ready is Charlotte

Bryan Campbell

Research Mentor: Anthony Bombik

Electrifying and Automating a Golf Cart

Josh Cantor

Research Mentor: Anthony Bombik

Flexible Wearable Sensors Project

Spencer Carpentier

Research Mentor: Roger Tipton

Tight-Knitted Target Search in Multi-Drone Coordination

Rishita Chawla, Akhil Garre

Research Mentor: Ran Zhang

Spatial Patterns and Determinants of Urban Litter Accumulation in the City of Charlotte, North Carolina

Katelyn Cloud

Research Mentor: Youngseob Eum

Unraveling Bat Immunity Through Toll-Like Receptor Analysis

Gabriella Colón

Research Mentor: Richard White

Exploring the colonization dynamics of *Mycetohabitans* spp. Atalia Cooper, Bhuwan Abbot, Morgan Carter

Atalia Cooper

Research Mentor: Bhuwan Abbot

Co-culturing Tumor Cells and Monocytes in 3D Spheroid Models to Study the Capability of Nucleic Acid Nanoparticles in Priming Anti-Tumoral Immune Response

Emma Crawford

Research Mentor: Kirill Afonin

Riding for Justice: A Journey Through Civil Rights History “We know someone will be killed, but we cannot let violence overcome nonviolence.” – Diane Nash

Keydra Cypress

Research Mentor: Scott Gartlan

From Pixels to Prognosis: Using Deep Learning to Explore Placenta Pathology

Krish Dandu

Research Mentor: Deeba Farah

Highly Fluorescent Asymmetric Thiazolothiazole Probes for Biological Sensing Applications

Charlie Darby

Research Mentor: Michael G. Walter

Designing a Simulation for a Swivel-based Mooring System to Improve Reliability of Wave Energy Converter Installations in Coastal NC

Reagan DeCaro

Research Mentor: Michael Smith

Exploring [3] Radialene Anions as Aqueous Organic Catholytes for Redox Flow Batteries (RFBs)

Alejandra Diaz

Research Mentor: Christopher Bejger

New Liquid-phase Exfoliation Method for the Synthesis of Metalloid Tellurium Nanostructures

Krishna Didugu

Research Mentor: Haitao Zhang

Analyzing Student Perceptions of Feedback in Monitoring Academic Progress: A Survey-Based Study

Yao Djaka

Research Mentor: Nadia Najjar

Using Ceramic Additive Manufacturing to Tailor Surface Parameters through Laser Scanning Strategies

Madison Drumheller

Research Mentor: Brigid Mullany & Lynnora Grant

Equality or Die: Impact of the Church and the Civil Rights Movement

Regina Dula

Research Mentor: Scott Gartlan

Revising for a Reason: Impacts from First Draft to Final

Haley Essen

Research Mentor: Madelyn Colonnese

Beyond Student Impact: How OurBRIDGE for KIDS Empowers Immigrant Mothers Through Professional Opportunities

Tairen Fenhoff

Research Mentor: Lan Kolano

Uncovering Hidden Partnerships: Scanning *Fusarium* Genomes for Bacterial Presence

Sara Field

Research Mentor: Morgan Carter

Exploring the Impact of Coaching as Professional Development, to Support Implementation of Effective Reading Instruction in Grades K through 12.

Adda Fisher

Research Mentor: Alicia Stewart Kitten

Anonymizing Human Motion in VirtualReality through Joint-Aware Obfuscation

Ruby Flanagan

Research Mentor: Depeng Xu

Learning my History through Southern History

Faith Ford

Research Mentor: Scott Gartlan

Outsmarting Algospeak: A Transparent, Adaptive Framework for Safer Online Communities

Amanda Fye

Research Mentor: Cori Faklaris

Crocodilian Immune Systems: The Medical El Dorado

Panaya Gadekar

Research Mentor: Rick White

Storage Trials Using Light-Assisted Drying to Thermally Stabilize Bexsero

Edgar Gallardo-Ramirez, Jade Duerr

Research Mentor: Susan Trammell

Exfoliation Dome Mapping and Distribution

Olivia Gerhart

Research Mentor: Missy Eppes

Silver Nanocluster-Infused Hydrogel for Targeted Disruption of Antibiotic-Resistant Bacterial DNA

Sarmistha Ghosh, Phong Nguyen, Elizabeth Skelly

Research Mentor: Kirill Afonin

Examining Initial Abstraction Ratios with the NRCS Curve Number Method to Estimate Runoff under Climate Change.

Justin Gifford

Research Mentor: Glenn Moglen

Design and Computational Modeling of Dielectric Metasurfaces for Device Applications

Nicolas Gomez

Research Mentor: You Zhou

Bringing Research into the Classroom: Data Visualization with the Bridges API

Myles Green

Research Mentor: Kalpathi R Subramanian

The Influence of Protesters' Emotional Conditions on Their Perceived Capacity to Bring About Social and Political Change.

Mariana Guzman

Research Mentor: Eric Heberlig

Church: More Than a Place to Worship

Chelsea Hall

Research Mentor: Scott Gartlan

Enhancing Mental Health and Dissecting Identity and Power: A Training Program for Correctional Officers

Eliza Harrell

Research Mentor: Megan Smith

An Evaluation of Hydrology and Water Quality from a Beaver Pond Complex through a Wet Meadow in a Suburban Piedmont Watershed

Chanel Harris

Research Mentor: Craig Allan

Visualizing County-Level Disparities in North Carolina Using BRIDGES

Saige Hatfield

Research Mentor: Kalpathi Subramanian

From Pharaohs to Freedom Riders: The Ongoing Fight Against Inequality

Tam Hawk

Research Mentor: Scott Gartlan

Developing and Improving Reverse Osmosis WEC Technologies and Swivel Joint System for Marine Energy Applications

Jacob Hawkins

Research Mentor: Michael Smith

America's Genocide and the Heroes that Emerged Civil Rights Field Trip June 13th to June 16th, 2025

Melissa Hefner

Research Mentor: Scott Garland

Amine Sensing with Symmetric Chromogenic Dipyrindinium Thiazolothiazole

Damarys Hernandez Santana

Research Mentor: Michael Walter

Finding Alternative Fertility Support on TikTok: A Reflexive Thematic Analysis

Nin Hlaing

Research Mentor: Margaret Quinlan

Immersive Digital Twin of a Robot-Assisted Finishing System for Polishing Metal Additive Manufactured Components

Jia Holt

Research Mentor: Jose C.M. Outeiro

Developing Pan Genome Tools for Exploring Heat Tolerance in Tomato Plants

Gabby Houck

Research Mentor: Robert Reid

An American Genocide: The Destruction of African Americans in the United States

Stephanie Huneycutt

Research Mentor: Scott Gartlan

Exposure-Driven Surface Texture Variation in Resin 3D Printing

Jasmine Jacobo-Martinez

Research Mentor: Lynnora Grant and Brigid Mullany

A Bumpy Ride to Freedom Could You Get on the Bus? Freedom Riders Civil Rights Trip June 13th – June 16th, 2025

Le'Quanza Johnson

Research Mentor: Scott Garlan

CHANGE

Yvonne Jordan

Research Mentor: Scott Gartlan

TikTok Medical Professionals and the Menopause Conversation: Reclaiming Authority and Reducing Stigma Through Digital Storytelling

Nawal Karshe

Research Mentor: Maggie Quinlan

Evaluation of Sparse Gaussian Processes for Informative Path Planning Using Mobile Robots

Jacob Karty

Research Mentor: Srivinas Akella

Evolution of Riboviria (RNA viruses)

Irfan Khan

Research Mentor: Daniel Janies

The Influence of Land Use on Microplastic Transport in Stormwater Runoff

Kenneth Kim

Research Mentor: Olya Keen

The System of Sharecropping and Its Effects on Black Families Educationally...After Four Generations, We Won in the Struggle.

Karen Kyei-Fordjour

Research Mentor: Scott Gartlan

Determining Optical and Photochemical Properties of TTzs for Photocatalysis and Chemical Sensing

Mary Kytle

Research Mentor: Michael Walter

Voices of Support: Designing Human-Centered AI Through Register and Summary Style for Delivery of Security and Privacy Advice

Tyler LaFramboise

Research Mentor: Cori Faklaris

Design and Simulation of Meta-surface Lenses Using Open-Source Electromagnetic Software

Dylan Lauro

Research Mentor: You Zhou

Photosensitizer Thiazolothiazole Dyes Against Infectious Bacteria

Nina Le

Research Mentor: Kirill Afonin

Freedom Riders – The Cost of Liberation

Kimberly Lipscomb

Research Mentor: Scott Garland

Teaching Infrastructure Security Through Interactive Experiences: Modeling Cyberattacks in Criminal Investigations

Ella Luedeke

Research Mentor: Meera Sridhar

Grounded in Place: Using Grounded Theory to Develop a Place-Based Theory of Teacher Growth

Sophia Maisano, Khushi Rathod

Research Mentor: Scott Gartlan

Hydroponic System for Real-Time Monitoring and Early Disease Detection

Kebron Mamo

Research Mentor: Nadia Najjar

Journey to Freedom

Joy Manson

Research Mentor: Scott Gartlan

Rooted in Resistance: Black Feminist Ecologies and the Struggle for Environmental Justice in North Carolina

Sarah Mantegna

Research Mentor: Fushcia-Ann Hoover

Mathematical Modeling of Aircraft Wings Encountering Gusts

Sebastian Mares

Research Mentor: Arun Vishnu Suresh Babu

Firefighter Mental Health Resources

Katie McCarthy

Research Mentor: Michael Benjamin

“Don’t Protest Like That” Observations on Civil Rights Protests and Perceptions

Shannon McFarland

Research Mentor: Scott Gartlan

An Interactive Visualizer for Explicit Student Knowledge Traces

Daniel Mendoza

Research Mentor: Razvan Bunescu

Synthesis of Mechanochemical Polymers Using Radialene Radicals

Diana Merenkov

Research Mentor: Christopher Bejger

Civil Rights CTI Freedom Riders Tour: From Personal Insights to Classroom Connections

Evelyn Metcalf

Research Mentor: Scott Gartlan

Civil Rights: Freedom Rides

Daltonesha Miller

Research Mentor: Scott Gartlan

Freedom Riders: Would you get on the Bus for Integration, Freedom and Justice!

Thomas Huston Murphy

Research Mentor: Scott Gartlan

Synthesis of Silver Nanoparticles for Elimination of Bacteria

Atqiya Nafisa

Research Mentor: Juan Vivero-Escoto

Viscosity Analysis of Thermally Responsive Phospholipid via Capillary Electrophoresis at Various Temperature and Injection Pressures

Rome Nasco

Research Mentor: Michael Walter

Examining Dementia in Aging Inmates

Tucker Neal

Research Mentor: Megan Smith

It's the Climb: Experiences of Embodiment Among Gender Diverse Individuals

Kai Norris

Research Mentor: Erika Montanaro

Youth Is NOT Wasted On Young People

Julia O'Connor

Research Mentor: Scott Gartlan

Prompt-to-Geometry: Exploring the Translation of Natural Language into Real Generative Design

Aidan Oh, Andrei Vince

Research Mentor: Sabrei Gokmen

Placemaking Narratives in Food Halls

Jasmine Oliver, Neha Panajkar

Research Mentor: Colleen Hammelman

Supporting Survivors and Self

Yasmine Paige

Research Mentor: Jessamyn Moxie

Policy Approaches to Water Conservation in the NC Piedmont under Climate Change Pressures

Arni Pancras

Research Mentor: Fushcia-Ann Hoover, Nicole Roberts, Pegah Madadi, Danielle Koonce

Identifying Water Conservation Strategies for a Climate Change Future: a Case Study of Policies and Procedures in the North Carolina Piedmont Region

Riley Peterson

Research Mentor: Fushcia-Ann Hoover

Extracting Cellulose from Plant Matter to Produce CMF

Madhava Aditya Bharadwaj Pinapati

Research Mentor: Roger Tipton

Investigating Complex Trait Variation in Wild Soybean for Cultivated Soybean Improvement

Susan Pittinaro, Adam Wood

Research Mentor: Scott Gartlan

Serial Ultrasound Imaging of Knee Cartilage in Athletes

Kacey Podielsky

Research Mentor: Abbey Thomas

Simulating Open Quantum Systems Using a Modified Schrödinger's Equation

John Quinn

Research Mentor: Donald Jacobs

Inflight Mothership Charging for Multi-Agent Drone Networks

Jackson Redman

Research Mentor: Ran Zhang

From Fear to Freedom in 1961

Natasha Ridge

Research Mentor: Scott Gartlan

Understanding the Role of DNAJA1 on R2-R2b Heterodimer Formation

Elizabeth Riley

Research Mentor: Andrew Truman

Advancing the Labor Force Participation of Charlotte's Latino Mothers and Fathers: Examining Intersecting Employment & Child Care Sector Opportunities and Barriers

Daniela Rivera

Research Mentor: Stephanie Potochnik

Beyond Rainfall Intensity-Duration: Toward a Predictive Model for Debris Flows in Western North Carolina

Jamie Rogers

Research Mentor: Ryan Rasanen

An Analysis of U.S. and N.C. Public opinion on AI Safety, Job impact, and Governance Following the 2025 Political Change

Kenta Sakamoto

Research Mentor: Cori Faklaris

The Political Economy of Policing

Jasmine Sanchez, Barbara Saa

Research Mentor: Martin Shuster

A Precalculus Knowledge Graph for Explicit Knowledge Tracing

Ryan Sawin

Research Mentor: Razvan Bunescu

Modeling Polar and Nonpolar Interactions as Thermodynamic Forces in Molecular Dynamics

Christian Schefer

Research Mentor: Donald Jacobs

Measurement of Gas Flow in Laser Powder Bed Fusion Machines

Morgan Scotten-White

Research Mentor: Jaime Berez

Electrifying and Automating a Golf Cart

Hyun Seo

Research Mentor: Anthony Bombik, Amirhossein Ghasemi

Food Truck Safety Analysis

Alex Sheng

Research Mentor: Michael Benjamin

"I could have been a Freedom Rider"

Yolanda Sistrunk

Research Mentor: Scott Gartland

Learning About a Legend: The Impact of John Lewis"Get into Good Trouble, Necessary Trouble"- John Lewis

Lisa Smith

Research Mentor: Scott Gartlan

Design of Transparent Surgical Device Tips with Fiber Optic Delivery for Laser-Based Tissue Sealing and Cutting

Maxwell Sommer

Research Mentor: Nate Fried

Tension Brings Attention: Connecting American History and Engineering

Allison Spohn

Research Mentor: Scott Gartlan

Reimagining Environmental Justice: Black Women's Activism through Storytelling, Spirituality, and Ecofeminism

Caroline Stacks

Research Mentor: Fushcia-Ann Hoover

Postcards Home: Women's Words of Courage

Rochelle Stanley

Research Mentor: Scott Gartlan

Characterization of the Phosphorylation of Sp1ZnF2

Savannah Stuart

Research Mentor: Eva Ge

Journey Through Courage: A Tribute to the Freedom RidersJanice L. Sutton, History, Independence High School

Janice Sutton

Research Mentor: Scott Gartlan

Privacy and Geometry in Latent Diffusion Model

Nathon Tadeo

Research Mentor: Liyue Fan

Exploring the Impacts of the Charlotte, NC Urban Landscape on Severe Thunderstorms via Idealized Simulations

Jackson Timberlake

Research Mentor: Casey Davenport

The Bus Ride to End Inequality

Khuanduen Toatley

Research Mentor: Scott Gartlan

Anti-Viral Expression of Bat IFN- α

Dylan Truong

Research Mentor: Rick White

Reduction of the Iron-4 Sulfur-4 2,6-dimethylphenyl-isocyanide Cubane Structure

Tim Tsung

Research Mentor: Christopher Bejger

Crush Truck

Isaac Tumey

Research Mentor: Terence Fagan

Analysis of Prophage in Cyanobium genomes

Maya Umozurike

Research Mentor: Richard Allen White

Supporting Survivors and Self (SSS) Program

Danny Valdes

Research Mentor: Jessamyn Moxie

Sex & Humor: A Systematic Review

Maya Vengurlekar

Research Mentor: Erika Montanaro

ourBRIDGE for EVERYONE: Exploring the Impact on Employee Success within a Family Support-Based Program

Kaylie Vong

Research Mentor: Lan Kolano

Exploring Intersectional Inequalities in Charlotte's Community-Based Arts

Ethan Wan

Research Mentor: Vaughn Schmutz

Synthesis and Optical Characterization of Voltage Sensitive Cell Membrane Dyes

Lucia Wert

Research Mentor: Michael Walter

Rediscovering Neglected Voices: Renaissance and Baroque Composers from Historically Marginalized Backgrounds

William Wiand, Abigail Roscoe

Research Mentor: Jay Grymes

Effects of Thermal Lensing in Laser Powder Bed Fusion Additive Manufacturing

Emma Wilhelm

Research Mentor: Jaime Berez

CTI Freedom Riders Trial 2025

May Winiarski

Research Mentor: Scott Gartlan

Undaunted: Faces of the Fight

Tamara Wood

Research Mentor: Scott Gartlan

Regeneration of Consumer Desiccant Packets for Sustainability

Cooper Wozniak

Research Mentor: Michael Benjamin

Mental Health Crises Among Aging Inmates

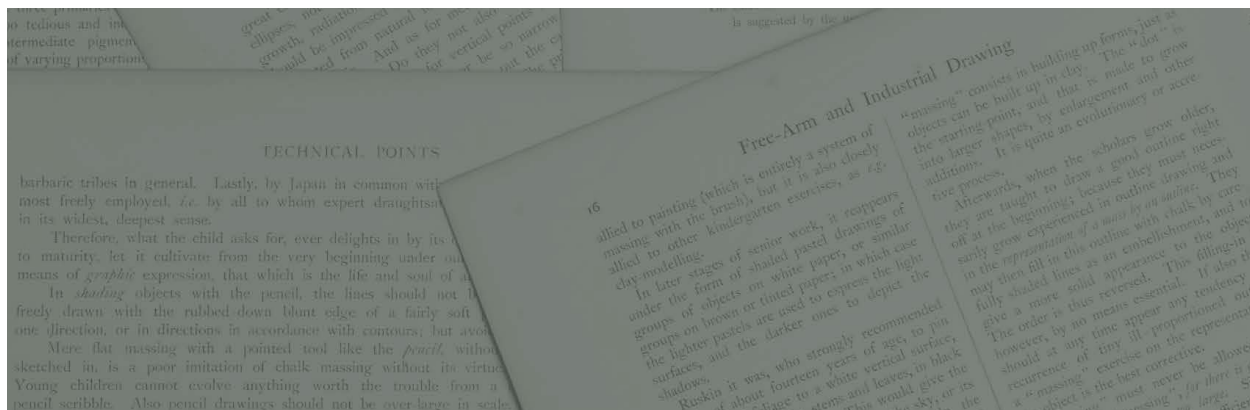
Rebecca Zheng

Research Mentor: Megan Smith

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ETHEL Presents

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